

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Hai U. Wang, Zhoufeng Chen and David J. Anderson

Application No.: Group Art Unit:

Filed: October 13, 2000 Examiner:

Title: Artery- and Vein-Specific Proteins and Uses Therefor



Date: 10-13-00 Express Mail Label No. EL551545782 US

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or
(First/Second submission after Final Rejection)
- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of the national stage in international application; or before mailing date of first office action on the merits or before the first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. 1.114; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, or
- ☐ a \$240.00 fee under 37 CFR 1.17(p), or
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
- ☐ a Statement under 37 CFR 1.97(e), as checked below, and
- ☐ a Petition under 37 CFR 1.97(d)(2), and
- ☐ a \$130.00 petition fee set forth in 37 CFR 1.17(i).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)
- ☐ Applicant requests that the attached IDS and cited reference(s) [] be placed in the application filewrapper.
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Enclosed herewith is form PTO-1449:

- ☐ Copies of the cited references are enclosed.
- ☒ Copies of cited references are enclosed except those entered in prior application, U.S. Serial No. 09/085,820, and references that are not required to be submitted under 37 CFR 1.98.
- ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.

Concise Explanation Requirement (non-English references):

- ☐ The "concise explanation" requirement for reference(s) [] under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
- ☐ the explanation provided in the Specification.
- ☐ submission of the enclosed International Search Report.
- ☐ the enclosed English language abstract.

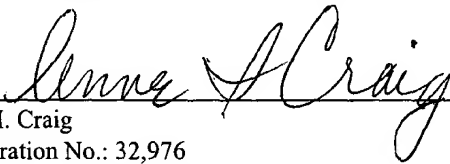
It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

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Dated: 13 October 2000

PTO-1449 REPRODUCED				ATTORNEY DOCKET NO. 1802.1003-009		APPLICATION NO.	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION				APPLICANTS Hai U. Wang, et al.			
October 13, 2000 (Use several sheets if necessary)				FILING DATE October 13, 2000		GROUP	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	AL	WO 96/26958	27 Feb 96	PCT			
	AM	WO 99/52541	13 Apr 98	PCT			
	AN	0 633 315 A2	29 Mar 93	Europe			
	AO						
	AP						
	AQ						
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR	Bennett, B. D. et al., "Molecular cloning of a ligand for the EPH-related receptor protein-tyrosine kinase Htk," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 92, pp. 1866-1870, March 1995.					
	AS	Bergemann, A. D. et al., "ELF-2, a New Member of the Eph Ligand Family, Is Segmentally Expressed in Mouse Embryos in the Region of the Hindbrain and Newly Forming Somites," <i>Molecular and Cellular Biology</i> , Vol. 15, No. 9, pp. 4921-4929, September 1995.					
	AT	Stein, E. et al., "Eph receptors discriminate specific ligand oligomers to determine alternative signaling complexes, attachment, and assembly responses," <i>Genes & Development</i> 12:667-678, 1998.					
EXAMINER				DATE CONSIDERED			

 3806 U.S. PTO
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AU	Andres, A. C. et al., "Expression of two novel eph-related receptor protein tyrosine kinases in mammary gland development and carcinogenesis," <i>Oncogene</i> , Vol. 9, pp. 1461-1467, 1994.					
	AV	Folkman, J. et al., "Blood Vessel Formation: What Is Its Molecular Basis?," <i>Cell</i> , Vol. 87, pp. 1153-1155, December 27, 1996.					
	AW	Risau, W., Mechanisms of angiogenesis," <i>Nature</i> , Vol. 386, pp. 671-674, April 17, 1997.					
	AX	Pasquale, E. B., "The Eph family of receptors," <i>Curr. Opin. Cell. Biol.</i> 9:608-615, 1997.					
	AY	Wang, H. U. et al., "Eph Family Transmembrane Ligands Can Mediate Repulsive Guidance of Trunk Neural Crest Migration and Motor Axon Outgrowth," <i>Neuron</i> , Vol. 18, pp. 383-396, March 1997.					
	AZ	Asahara, T. et al., "Isolation of Putative Progenitor Endothelial Cells for Angiogenesis," <i>Science</i> , Vol. 275, pp. 964-967, February 14, 1997.					
	AR2	Wang, H. U. et al., "Molecular Distinction and Angiogenic Interaction between Embryonic Arteries and Veins Revealed by ephrin-B2 and Its Receptor Eph-B4," <i>Cell</i> , Vol. 93, pp. 741-753, May 29, 1998.					
	AS2	Simonet, S., et al., "Venous and Arterial Endothelial Cells Respond Differently to Thrombin and its Endogenous Receptor Agonist," <i>European Journal of Pharmacology</i> 216: 135-137 (1992).					
EXAMINER				DATE CONSIDERED			

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
AT2	Yancopoulos, G.D., et al., "Vasculogenesis, Angiogenesis, and Growth Factors: Ephrins Enter the Fray at the Border," <i>Cell</i> , 93: 661-664 (1998).						
AU2	Wang, H., "Transmembrane Ephrin Ligands in Neural and Vascular Development," <i>DAI</i> , 59(11): 5721 (1999).						
EXAMINER				DATE CONSIDERED			